

## TITLE OF THE INVENTION

## DNA ENCODING THE HUMAN SERINE PROTEASE T

## ABSTRACT OF THE INVENTION

5           Here we describe the molecular identification of a cDNA encoding a novel  
serine protease we have termed protease T. The deduced amino acid sequence  
encodes a prepro form of 290 amino acids, and its alignment with other well-  
characterized serine proteases indicates that it is a member of the S1 serine protease  
family. We have found that the protease T mRNA is expressed in stomach, testis,  
10 retina, fibroblasts, spinal cord, and several regions of the brain. Protease T mRNA is  
also found in leukocytes and in the Jurkat (ATCC TIB-152) T cell line. Thus, this  
protease is potentially involved in gastric, testicular, retinal, dermatological,  
neurological/neurodegenerative and/or immunological disorders. The protease T gene  
maps to human chromosome 16p13.3 which is near the tryptase locus. Enzymatically  
15 active protease T, we have generated, is amenable to further biochemical analyses for  
the identification of physiological substrates and specific modulators.

10041054-010702